



The Hover Island Heist

Grade 5 math · Multiplication, Fractions of a number, Order of operations, Rounding, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Someone has bypassed the laser grid at the Spy Training Academy and swiped the prototype Shrink Ray! The Chief of Gadgets needs your team of elite junior recruits to crack the case. Examine the clues, solve the math puzzles, and identify the rogue agent before they escape the island!

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

My answer: the rogue agent is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	PRIMARY GADGET	BACKUP GEAR	DOMINANT HAND	DISGUISE WIG	SECURITY VULNERABILITY
Juni Cortez	Smoke Bombs	Decoy Projector	Left Handed	Bright Orange	Magnet Trap
Lara Croft	Stealth Cloak	Hacking Pad	Right Handed	Neon Blue	Bright Light
Sterling Archer	Laser Watch	Night Vision	Left Handed	Silver Chrome	Magnet Trap
Alex Rider	Jetpack Boots	Night Vision	Left Handed	Neon Blue	Magnet Trap
Johnny English	Smoke Bombs	Hacking Pad	Left Handed	Silver Chrome	Magnet Trap
Encyclopedia Brown	Laser Watch	Drone Controller	Right Handed	Silver Chrome	Magnet Trap
Agent Simmons	Jetpack Boots	Night Vision	Right Handed	Silver Chrome	Bright Light
Inspector Gadget	Jetpack Boots	Hacking Pad	Left Handed	Silver Chrome	Magnet Trap
Ethan Hunt	Stealth Cloak	Hacking Pad	Right Handed	Neon Blue	Magnet Trap
Kim Possible	Jetpack Boots	Night Vision	Right Handed	Neon Blue	Magnet Trap
Carmen Cortez	Stealth Cloak	Decoy Projector	Left Handed	Silver Chrome	Bright Light
Spy Kid Leo	Laser Watch	Drone Controller	Left Handed	Neon Blue	Bright Light
MacGyver	Laser Watch	Decoy Projector	Left Handed	Neon Blue	Magnet Trap
Sam Fisher	Grappling Hook	Night Vision	Left Handed	Bright Orange	Static Shock
Austin Powers	Laser Watch	Drone Controller	Left Handed	Silver Chrome	Magnet Trap
Nancy Drew	Grappling Hook	Drone Controller	Right Handed	Bright Orange	Static Shock
Perry Platypus	Grappling Hook	Night Vision	Right Handed	Bright Orange	Bright Light
Harriet Spy	Stealth Cloak	Drone Controller	Left Handed	Silver Chrome	Bright Light
Natasha Romanoff	Grappling Hook	Night Vision	Left Handed	Silver Chrome	Static Shock
James Bond	Jetpack Boots	Decoy Projector	Left Handed	Silver Chrome	Magnet Trap
Sherlock Holmes	Laser Watch	Night Vision	Right Handed	Neon Blue	Magnet Trap

CLUE 1
Multiplication facts (1-12)

We intercepted a message hidden in a shipment of gadgets. The cargo crates are arranged in equal rows. Multiply the rows of gear to decode the first encryption key!

Solve each problem, then write its letter in every clue box that shows the same number.

N																			
60	100	21	63	64	100	45	28	77	100	121	63	64	4	100	77	48	66	36	
18	36	63	21	84	45	4	90	63	4	66	77	8	63	4					

$10 \times 6 = \square \rightarrow \boxed{\text{N}}$

$10 \times 10 = \square \rightarrow \boxed{\text{O}}$

$4 \times 12 = \square \rightarrow \boxed{\text{W}}$

$5 \times 9 = \square \rightarrow \boxed{\text{Y}}$

$11 \times 7 = \square \rightarrow \boxed{\text{R}}$

$7 \times 9 = \square \rightarrow \boxed{\text{E}}$

$8 \times 8 = \square \rightarrow \boxed{\text{C}}$

$7 \times 3 = \square \rightarrow \boxed{\text{D}}$

$10 \times 9 = \square \rightarrow \boxed{\text{H}}$

$2 \times 2 = \square \rightarrow \boxed{\text{T}}$

$2 \times 9 = \square \rightarrow \boxed{\text{U}}$

$6 \times 11 = \square \rightarrow \boxed{\text{A}}$

$12 \times 3 = \square \rightarrow \boxed{\text{S}}$

$4 \times 7 = \square \rightarrow \boxed{\text{P}}$

$11 \times 11 = \square \rightarrow \boxed{\text{J}}$

$12 \times 7 = \square \rightarrow \boxed{\text{B}}$

$1 \times 8 = \square \rightarrow \boxed{\text{G}}$

Scratch space:

CLUE 2 Fractions of a number

The security logs are partially corrupted. We need to calculate a specific fraction of the remaining server files to reboot the backup cameras and see who ran past.

Solve each problem, then write its letter in every clue box that shows the same number.

Diagram illustrating a 3x10 grid structure with values in boxes. The top row contains 16 boxes, the middle row contains 6 boxes, and the bottom row contains 6 empty boxes. The values in the top row are: 31, 34, 38, 26, 22, 31, 15, 7, 39, 38, 15, 26, 9, 19, 38, 10, 31. The values in the middle row are: 34, 17, 22, 39, 38, 39. The boxes containing the value 31 in the top row are highlighted in orange.

3/6 of 62 = → **T**

5/10 of 38 = → **L**

4/8 of 34 = → **A**

4/6 of 57 = → **E**

6/10 of 25 = → **R**

5/10 of 52 = →

$$3/10 \text{ of } 130 = \boxed{} \rightarrow \boxed{\mathbf{D}}$$

4/8 of 14 = → **U**

5/10 of 18 = → **S**

$$\frac{1}{5} \text{ of } 110 = \boxed{} \rightarrow \boxed{\text{N}}$$

$1/5$ of 50 = $\rightarrow$ **F**

$$2/8 \text{ of } 136 = \boxed{} \rightarrow \boxed{\text{H}}$$

Scratch space:

CLUE 3

Order of operations

To override the locked vault door, we must solve a security sequence. Solve the multi-step math formula in the correct order to reveal the override code.

Solve each problem, then write its letter in every clue box that shows the same number.

T			T					T								T						
55	8	56	55	34	17	18	56	55	61	34	19	19	55	73	20	20	56	43				
								T	T													
36	69	34	60	34	18	77	56	55	55	17	34	20										

$43 + 4 \times 3 = \square \rightarrow \boxed{\text{T}}$

$12 \times 7 - 28 = \square \rightarrow \boxed{\text{E}}$

$10 + 5 \times 2 = \square \rightarrow \boxed{\text{P}}$

$9 \times 7 - 2 = \square \rightarrow \boxed{\text{W}}$

$10 \times 9 - 13 = \square \rightarrow \boxed{\text{N}}$

$7 + 2 \times 6 = \square \rightarrow \boxed{\text{S}}$

$4 \times 11 - 26 = \square \rightarrow \boxed{\text{G}}$

$9 \times 8 - 3 = \square \rightarrow \boxed{\text{Y}}$

$8 \times 8 - 30 = \square \rightarrow \boxed{\text{A}}$

$9 \times 3 - 10 = \square \rightarrow \boxed{\text{R}}$

$52 + 2 \times 4 = \square \rightarrow \boxed{\text{M}}$

$22 + 2 \times 7 = \square \rightarrow \boxed{\text{B}}$

$6 \times 4 - 16 = \square \rightarrow \boxed{\text{H}}$

$8 \times 10 - 7 = \square \rightarrow \boxed{\text{O}}$

$27 + 8 \times 2 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 4

Our tracking radar is fuzzy. It only displays the suspect's getaway speed rounded to the nearest ten. Round the signal strength to pinpoint their exact location.

Solve each problem, then write its letter in every clue box that shows the same number.

Diagram illustrating a sequence of numbers arranged in two rows of boxes. The top row contains 14 boxes with values: 30, 3000, 300, 5000, 110, 1300, 110, 5000, 130, 200, 290, 30, 30, 300, 1300. The bottom row contains 14 boxes with values: 130, 1100, 20, 70, 300, 5000, 170, 3000, 5000, 290, 1700, 300, 130, 30, 5000, 110, 9000, 1300, 130. The boxes containing the value 30 are highlighted in orange.

Round 29 to the nearest ten $\rightarrow$ **T**

Round 285 to the nearest hundred $\rightarrow$ **E**

Round 1,679 to the nearest hundred → **M**

Round 133 to the nearest ten $\rightarrow$ **S**

Round 232 to the nearest hundred $\rightarrow$ **P**

Round 1,344 to the nearest hundred → **D**

Round 174 to the nearest ten $\rightarrow$ **C**

Round 16 to the nearest ten $\rightarrow$ **L**

Round 291 to the nearest ten $\rightarrow$ **0**

Round 113 to the nearest ten $\rightarrow$ **A**

Round 8,811 to the nearest thousand → **N**

Round 5,240 to the nearest thousand $\rightarrow$ **R**

Round 3,064 to the nearest thousand → **H**

Round 72 to the nearest ten $\rightarrow$ **V**

Round 1,123 to the nearest hundred $\rightarrow$

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

The escape route splits into several secret paths. Divide the total footprints evenly among our search teams so we can cover every exit at the same time.

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

Step 1 - solve these:

$7 \div 7 = \boxed{}$

$72 \div 12 = \boxed{}$

$30 \div 3 = \boxed{}$

$33 \div 3 = \boxed{}$

$48 \div 4 = \boxed{}$

$16 \div 8 = \boxed{}$

$12 \div 3 = \boxed{}$

$21 \div 7 = \boxed{}$

$64 \div 8 = \boxed{}$

$14 \div 2 = \boxed{}$

$15 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain escapes the training room behind a cloud of smoke bombs, then cracks the safe using a hacking pad.
2. The villain zips past the guards using a laser watch, then confuses the security guards with a decoy projector.
3. The villain scales the high academy wall with a grappling hook, then snaps photos of the plans with a spy camera.
4. The villain scales the high academy wall with a grappling hook, then confuses the security guards with a decoy projector.
5. The villain slips through the vault door wearing a stealth cloak, then navigates the dark hallway with night vision.
6. The villain zips past the guards using a laser watch, then navigates the dark hallway with night vision.
7. The villain blasts over the laser grid in jetpack boots, then guides a flying drone controller to grab the key.
8. The villain scales the high academy wall with a grappling hook, then cracks the safe using a hacking pad.
9. The villain zips past the guards using a laser watch, then guides a flying drone controller to grab the key.
10. The villain blasts over the laser grid in jetpack boots, then cracks the safe using a hacking pad.
11. The villain escapes the training room behind a cloud of smoke bombs, then guides a flying drone controller to grab the key.
12. The villain slips through the vault door wearing a stealth cloak, then snaps photos of the plans with a spy camera.

Answer Key

The Hover Island Heist

Culprit: Austin Powers

Laser Watch · Drone Controller · Left Handed · Silver Chrome · Magnet Trap

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "NO DECOY PROJECTOR WAS USED BY THE TARGET"

$10 \times 6 = 60$ (N) · $10 \times 10 = 100$ (O) · $4 \times 12 = 48$ (W) · $5 \times 9 = 45$ (Y) · $11 \times 7 = 77$ (R) · $7 \times 9 = 63$ (E) · $8 \times 8 = 64$ (C) · $7 \times 3 = 21$ (D) · $10 \times 9 = 90$ (H) · $2 \times 2 = 4$ (T) · $2 \times 9 = 18$ (U) · $6 \times 11 = 66$ (A) · $12 \times 3 = 36$ (S) · $4 \times 7 = 28$ (P) · $11 \times 11 = 121$ (J) · $12 \times 7 = 84$ (B) · $1 \times 8 = 8$ (G)

Clue 2 (Fractions of a number): "THE INTRUDER IS LEFT HANDED"

$3/6$ of 62 = 31 (T) · $5/10$ of 38 = 19 (L) · $4/8$ of 34 = 17 (A) · $4/6$ of 57 = 38 (E) · $6/10$ of 25 = 15 (R) · $5/10$ of 52 = 26 (I) · $3/10$ of 130 = 39 (D) · $4/8$ of 14 = 7 (U) · $5/10$ of 18 = 9 (S) · $1/5$ of 110 = 22 (N) · $1/5$ of 50 = 10 (F) · $2/8$ of 136 = 34 (H)

Clue 3 (Order of operations): "THE TARGET WAS STOPPED BY A MAGNET TRAP"

$43 + 4 \times 3 = 55$ (T) · $12 \times 7 - 28 = 56$ (E) · $10 + 5 \times 2 = 20$ (P) · $9 \times 7 - 2 = 61$ (W) · $10 \times 9 - 13 = 77$ (N) · $7 + 2 \times 6 = 19$ (S) · $4 \times 11 - 26 = 18$ (G) · $9 \times 8 - 3 = 69$ (Y) · $8 \times 8 - 30 = 34$ (A) · $9 \times 3 - 10 = 17$ (R) · $52 + 2 \times 4 = 60$ (M) · $22 + 2 \times 7 = 36$ (B) · $6 \times 4 - 16 = 8$ (H) · $8 \times 10 - 7 = 73$ (O) · $27 + 8 \times 2 = 43$ (D)

Clue 4 (Rounding): "THE RADAR SPOTTED SILVER CHROME STRANDS"

Round 29 to the nearest ten = 30 (T) · Round 285 to the nearest hundred = 300 (E) · Round 1,679 to the nearest hundred = 1700 (M) · Round 133 to the nearest ten = 130 (S) · Round 232 to the nearest hundred = 200 (P) · Round 1,344 to the nearest hundred = 1300 (D) · Round 174 to the nearest ten = 170 (C) · Round 16 to the nearest ten = 20 (L) · Round 291 to the nearest ten = 290 (O) · Round 113 to the nearest ten = 110 (A) · Round 8,811 to the nearest thousand = 9000 (N) · Round 5,240 to the nearest thousand = 5000 (R) · Round 3,064 to the nearest thousand = 3000 (H) · Round 72 to the nearest ten = 70 (V) · Round 1,123 to the nearest hundred = 1100 (I)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Austin Powers

$7 \div 7 = 1$ · $72 \div 12 = 6$ · $30 \div 3 = 10$ · $33 \div 3 = 11$ · $48 \div 4 = 12$ · $16 \div 8 = 2$ · $12 \div 3 = 4$ · $21 \div 7 = 3$ · $64 \div 8 = 8$ · $14 \div 2 = 7$ · $15 \div 3 = 5$